

**REMARKS**

Claims 1-30 were pending in the current application. Applicants have amended independent claims 1, 9, 16, 19, 21, 25, and 30. Reexamination and reconsideration of all claims, as amended, are respectfully requested.

**§101**

The Office Action rejected claims 1-30 under 35 U.S.C. §101 based on the allegation that the claims “merely manipulate an abstract idea without a claimed limitation to a practical application.” Office Action, p. 2. The Office Action indicated that amendment that specified the claims are directed to a practical application and producing a “**tangible result [ ] executed by a computer**” would be considered statutory. Office Action, pp. 2-3

In accordance with the indication in the Office Action, Applicants have amended independent claims 1, 9, 16, 19, 21, 25, and 30 to recite that the method(s) are configured for execution on a computing device.

Regarding a practical application and producing a tangible result, Applicants point to claim 1, as amended, which now recites a method for encoding a sequence into a concatenated string. The method is configured to be executed by a computing device, and comprises building a suffix tree, pruning the suffix tree to form a generalized context tree (GCT), obtaining a binary representation of a full tree derived from the GCT, encoding the sequence into a binary string, and concatenating the binary representation of the full tree with the binary string to form the concatenated string. This represents a practical application which produces a tangible result, namely a concatenated string, configured for execution by a computing device. Thus claim 1 and all other pending independent and dependent claims constitute statutory subject matter.

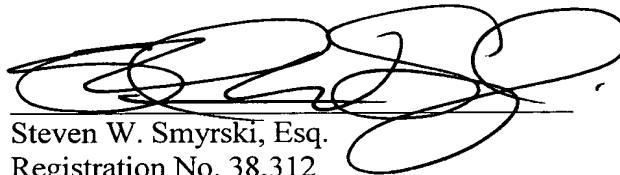
Accordingly, it is respectfully submitted that all pending claims fully comply with 35 U.S.C. § 101.

**CONCLUSION**

In view of the foregoing, it is respectfully submitted that all claims of the present application are in condition for allowance. Reexamination and reconsideration of all of the claims are respectfully requested, and allowance of all the claims at an early date is solicited.

Should it be determined for any reason an insufficient fee has been paid, please charge any insufficiency to ensure consideration and allowance of this application to Deposit Account 08-2025.

Respectfully submitted,



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